

**What is Claimed is:**

1. A method for communicating data between a fiber optic data network and an electric power system, comprising:
  - communicating a first data signal on the fiber optic data network;
  - converting the first data signal to a second data signal; and
  - communicating the second data signal on the electric power system.
2. The method of claim 1, wherein the first data signal is a fiber optic-based signal.
3. The method of claim 1, wherein the second data signal is an analog signal.
4. The method of claim 3, wherein the analog signal is modulated with a radio frequency signal.
5. The method of claim 1, wherein the first data signal is received on the fiber optic data network.
6. The method of claim 1, wherein the first data signal is transmitted on the fiber optic data network.
7. The method of claim 1, wherein the second data signal is received on the electric power system.

8. The method of claim 1, wherein the second data signal is transmitted on the electric power system.
9. The method of claim 1, wherein a fiber optic interface device converts the signals.
10. The method of claim 1, wherein the electric power system is a low-voltage premise system located within a customer premise.
11. The method of claim 1, wherein the electric power system is a low-voltage distribution system.
12. The method of claim 1, wherein the electric power system is a medium-voltage distribution system.
13. The method of claim 1, wherein the electric power system is a high-voltage transmission system.
14. The method of claim 1, further comprising converting the second data signal to a third data signal, wherein the third data signal is capable of being transmitted on a telecommunications network.

15. The method of claim 14, wherein a power line interface device converts the second data to the third data signal.
16. The method of claim 14, wherein the telecommunications network is a customer premise telephone network.
17. The method of claim 14, wherein the telecommunications network is a customer premise coaxial cable network.
18. The method of claim 1, wherein the first data signal is communicated with a content provider via the fiber optic data network.
19. The method of claim 1, further comprising routing data communicated with fiber optic network and electrical power system.
20. A device for converting data between a fiber optic data network and an electric power system, comprising:
  - a first interface port for communicating a first data signal from the fiber optic data network;
  - a second interface port for communicating the second data signal on the electric power system; and
  - a converter in communication with the first interface port and the second interface

port for converting the first data signal to a second data signal to be communicated on the electric power system.

21. The device of claim 20, wherein the converting comprises modifying the first data signal from a digital signal to an analog signal.
22. The device of claim 20, wherein the converting comprises modifying the second data signal from an analog signal to a digital signal.
23. The device of claim 20, wherein the converter comprises a fiber optic transceiver.
24. The device of claim 20, wherein the converter comprises a modem.
25. The device of claim 20, wherein the converter comprises a router.
26. The device of claim 20, wherein the first data signal is a fiber optic-based signal.
27. The device of claim 20, wherein the second data signal is an analog signal.
28. The device of claim 20, wherein the converter converts the second data signal to a first data signal to be communicated on fiber optic data network.

29. The device of claim 20, wherein the electric power system is a low-voltage premise system located within a customer premise.
30. The device of claim 20, wherein the electric power system is a low-voltage distribution system.
31. The device of claim 20, wherein the electric power system is a medium-voltage distribution system.
32. The device of claim 20, wherein the electric power system is a high-voltage transmission system.
33. The device of claim 20, further comprising converting the second data signal to a third data signal, wherein the third data signal is capable of being transmitted on a telecommunications network.
34. The device of claim 33, wherein the telecommunications network is a customer premise telephone network.
35. The device of claim 33, wherein the telecommunications network is a customer premise coaxial cable network.

36. A communication network, comprising:

a fiber optic data system that carries a first data signal;

an electric power system that carries a second data signal; and

a converter in communication with the fiber optic data system and the electric power system, wherein the converter converts the first data signal to the second data signal.

37. The communication network of claim 36, further comprising a power line interface device in communication with the electric power system and a telecommunication network.

38. The communication network of claim 37, further comprising a premise data network in communication with the power line interface device.

39. The communication network of claim 37, wherein the power line interface device converts the second data signal to a third data signal that is carried by the telecommunications network.

40. The communication network of claim 37, wherein the telecommunications network is in communication with a network device.

41. The communication network of claim 40, wherein the network device includes at least one of the following: a telephone, a computer, a facsimile machine, a television, and a household appliance.
42. The communication network of claim 36, wherein converter converts the second data signal to the first data signal.
43. The communication network of claim 36, wherein the electric power system is in communication with a network device.
44. The communication network of claim 43, wherein the network device includes at least one of the following: a telephone, a computer, a facsimile machine, a television, and a household appliance.
45. The communication network of claim 36, further comprising an electric transformer in communication with the electric power system.
46. The communication network of claim 36, further comprising a power line bridge in communication with the electric power system and the fiber optic data network.
47. The communication network of claim 45, wherein the electric transformer is in communication with the converter.

48. The communication network of claim 36, wherein the first data signal is a fiber optic-based signal.
49. The communication network of claim 36, wherein the second data signal is an analog signal.
50. The communication network of claim 36, wherein the electric power system is a low-voltage premise system located within a customer premise.
51. The communication network of claim 50, wherein the converter is in direct connection with the low-voltage premise system.
52. The communication network of claim 36, wherein the electric power system is a low-voltage distribution system.
53. The communication network of claim 52, wherein the converter is in direct connection with the low-voltage distribution system.
54. The communication network of claim 36, wherein the electric power system is a medium-voltage distribution system.



55. The communication network of claim 54, wherein the converter is in direct connection with the medium-voltage distribution system.
56. The communication network of claim 36, wherein the electric power system is a high-voltage transmission system.
57. The communication network of claim 56, wherein the converter is in direct connection with the high-voltage transmission system.
58. A method for communicating data between a fiber optic data network and an electric power system, comprising:
- receiving a fiber optic data signal with an optical transceiver;
  - modulating the fiber optic data signal with a radio frequency signal;
  - creating an analog signal; and
  - transmitting the analog signal to the electric power system.
59. The method claim 58, further comprising:
- receiving the analog signal from the electric power system;
  - converting the analog signal to a premise-based data signal; and
  - providing the premise-based data signal to a network device.
60. A method for communicating data between a fiber optic data network and an electric power system, comprising:

receiving a premise-based data signal from a network device;  
converting the premise-based data signal to an analog signal; and  
providing the analog signal to the electric power system.

61. The method claim 60, further comprising:

receiving the analog signal from the electric power system;  
demodulating the analog signal with a radio frequency signal;  
creating a fiber optic data signal;  
receiving the fiber optic data signal with an optical transceiver; and  
transmitting the fiber optic data signal to the fiber optic data network.